

# Web Application

Syllabus Number

3D323

Special Subjects

Elective 2 credit

SHIONOME. Takeaki

## 1. Course Description

This is a class what we learn about the fundamental components of the Web application.

For example, we learn about the computer network, information security, database system, Web design, and understand how it is utilized for the construction of the Web application.

This course follows DP2 in the diplomat policies of the faculty.

## 2. Course Objectives

Acquire the knowledge of the structure of the web application, its advantage and disadvantage, and how to build information system on the Web.

## 3. Grading Policy

The assessment will be based on quizzes in each class(30%), mid-term report assignments (20%), and final exams (50%).

Model answers will be posted on the LMS for interim reports and final exams.

## 4. Textbook and Reference

Textbook

松尾啓志 教科書:『インターネットとWeb技術』(新インターユニバーシティ)、オーム社、2009  
オーム社

## 5. Requirements(Assignments)

This lecture requires comprehensive knowledge of computer networks, programming, distributed systems, etc.

It is desirable that students have taken related subjects such as "Web Technology", "Computer Network", "Network Security", and "Database Theory".

## 6. Note

## 7. Schedule

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|------|--|
| [1]  | Introduction                           |
| [2]  | Overview of web system                 |
| [3]  | Fundamental technology of web system   |
| [4]  | Network                                |
| [5]  | HTML                                   |
| [6]  | Server side and client side            |
| [7]  | JavaScript practice                    |
| [8]  | Network application                    |
| [9]  | Web system configuration               |
| [10] | Database                               |
| [11] | Explanation of mid term report         |
| [12] | Security 1 / Attack                    |
| [13] | Security 2 / Defense                   |
| [14] | Authentication and encryption          |
| [15] | General overview and final examination |